Ethylene Oxide Usage and Emissions

Sterigenics	Location		
Emission Controls:	Queensbury		
Sterilizer	Ceilcote Scrubber		
Aerations Rooms	Abator		
Back Vents	Abator		

Usage and Emissions:	2019	2018	2017	2016	2015
EtO Usage (lbs)	378,318	351,823	341,214	355,795	370,457
Sterilizer Control Effic. (%)	99.945%	99.945%	99.945%	99.930%	99.930%
Aer. Room Control Effic (%)	99.92%	99.97%	99.85%	99.76%	99.850%
Backvent Effic. (%)	99.800%	99.960%	99.920%	99.600%	99.800%
EO Sterilizer Emissions (lbs)	198	184	178	237	246
EO Aeration Emissions (lbs)	11	4	20	34	22
EO Backvent Emissions (lbs)	8	1	3	14	7
EO Fugitive Emissions (lbs)	189.16	176	171	178	185
EO Accidental Releases (lbs):	0.0	0	0	0	0

TOTAL Stack EO Emissions (lbs)	216.73	189.32	201.49	284.99	275.99
TOTAL Fugitive EO Emissions (lbs)	189.16	175.91	170.61	177.90	185.23

EO Sterilizer Emissions (#) = 0.95 * EO Usage * (1- %control efficiency)

EO Aeration Emissions (#) = 0.04 * EO Usage * (1- %control efficiency)

EO Backvent Emissions (#) = 0.01 * EO Usage * (1- %control efficiency)

EO Fugitive Emissions (#) = 0.0005 * EO Usage

^{*} Backvent emissions were controlled begininging Nov 2018